

Please type a plus sign (+) inside this box → +



COPY OF PAPERS  
ORIGINALLY FILED

PTO/SB/21 (08-00)

Approval for use through 10/31/2002. OMB 0651-0031  
U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to the collection of information unless it displays a valid OMB control number.

## TRANSMITTAL FORM

*(to be used for all correspondence after initial filing)*

		Application Number	09/935,083
		Filing Date	August 21, 2001
		First Named Inventor	Crawford, James A.
		Group Art Unit	2661
		Examiner Name	TBD
Total Number of Pages in This Submission		Attorney Docket Number	70647

### ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form (in duplicate)	<input type="checkbox"/> Assignment Papers <i>(for an Application)</i>	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i>
<input type="checkbox"/> <input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> <input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i>
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1. Form PTO 1449 2. Four (4) References 3. Return Receipt Postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

RECEIVED

MAY 15 2002

Technology Center 2600

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual name	Scott J. Menghini, Reg. No. 42,880
Signature	
Date	April 30, 2002

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on this date:

April 30, 2002

Typed or printed name	Scott J. Menghini		
Signature		Date	April 30, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



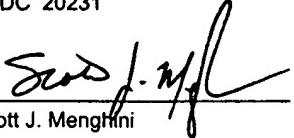
COPY OF PAPERS  
ORIGINALLY FILED

Docket No. 70647

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Crawford	I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents Washington, DC 20231 on this date.
Application No.:	09/935,083	
Filed:	August 21, 2001	
Title:	<b>OFDM PILOT TONE TRACKING TO REDUCE PERFORMANCE LOSS DUE TO FREQUENCY PULLING AND PUSHING</b>	
Group Art Unit:	2661	
Examiner:	TBD	

04/30/02  
Date

  
Scott J. Menghini  
Registration No. 42,880

Attorney for Applicant(s)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, DC 20231

RECEIVED

MAY 15 2002

Technology Center 2600

Dear Sir:

This Information Disclosure Statement is submitted:

- Under 37 CFR §1.97(b) (within three months of the filing date of a national application or date of entry of an international application, or before the mailing date of a first Office Action on the merits, whichever occurs last).
- Under 37 CFR §1.97(c) together with either:
  - a statement under 37 CFR §1.97(e), or
  - a fee under 37 CFR §1.17(p)  
(after the 37 CFR §1.97(b) time period, but before the mailing date of a final Action, a Notice of Allowance, or an action that otherwise closes prosecution).
- Under 37 CFR §1.97(d) together with:
  - a statement under 37 CFR §1.97(e), and
  - a fee under 37 CFR §1.17(p)  
(after the 37 CFR §1.97(c) time period, but on or before payment of the issue fee).

In accordance with the duty of disclosure imposed by 37 CFR § 1.56 to inform the Patent Office of all patents, publications, applications and other information known by Applicants or Applicants' representative that may be material to the examination of

IDS

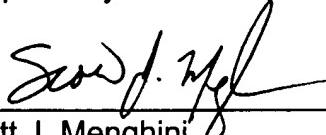
Application No. 09/935,083

Page 2

the subject application, Applicants' representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 CFR §§ 1.97-1.98 and includes Form PTO-1449 with Four (4) references listed as items AA-AD.

It is requested that the information provided herein be made of record in this application.

Respectfully submitted,



---

Scott J. Menghini  
Attorney for Applicant(s)  
Reg. No. 42,880  
(858) 552-1311

Dated: April 30, 2002

**Address all Correspondence to:**

FITCH, EVEN, TABIN & FLANNERY  
120 So. LaSalle Street  
Suite 1600  
Chicago, IL 60603  
(858) 552-1311

COPY OF PAPERS  
ORIGINALLY FILED

MAY 10 2002



Form PTO-1449 (Modified)

**INFORMATION DISCLOSURE  
CITATION IN AN APPLICATION**

Application No.	09/935,083
Filing Date	August 21, 2001
First Named Inventor	Crawford
Group Art Unit	2661
Examiner Name	TBD
Sheet 1 of 1	Attorney Docket No. 70647

U.S. PATENT DOCUMENTS									
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	FILING DATE (if appropriate)
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					

RECEIVED

MAY 15 2002

Technology Center 2600

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS							
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	AA		ACTIS, ROBERT and McMORRAN, ROY A.; <i>Millimeter Load Pull Measurements</i> ; Applied Microwave; November/December 1989; pp. 91-102				
	AB		CRAWFORD, JAMES A.; <i>Frequency Synthesizer Design Handbook</i> ; 1994; pp. 109-114; Artech House; Boston, London				
	AC		EGAN, Ph.D., WILLIAM F.; <i>Frequency Synthesis by Phase Lock</i> ; 1981; p. 33; John Wiley & Sons, A Wiley-Interscience Publication; New York, Chichester, Brisbane, Toronto				
	AD		GOLAY, MARCEL J.E.; <i>Normalized Equations of the Regenerative Oscillator – Noise, Phase-Locking, and Pulling</i> ; Proceedings of the IEEE; 1964; pp. 1311-1330; IEEE				

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.